

# Plastic properties and structure of bitumen modified by recycled polyethylene

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

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## Abstract

© 2018 Taylor & Francis Group, LLC. The study of the plastic properties and structure of bitumen modified by recycled polyethylene was made. It was shown that when recycled polyethylene was introduced into bitumen, the plasticity interval and viscosity of bitumen increased significantly. It was shown that the compatibility of bitumen and recycled polyethylene depends on the bulk properties of the polymer used. Two mechanisms of the modifying action of recycled polyethylenes were revealed.

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## Keywords

bitumen, plastic properties, polymer modified bitumen, recycled polyethylene, structure

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